

REMARKS

Reconsideration and allowance of this application are respectfully requested in light of the above amendments and the following remarks.

The Examiner is requested to fax to the undersigned at 202-408-5200:

(1) the initialed copy of the PTO-1449 referred to at the bottom of page 1 of the Office Action, and

(2) a written indication that the claim for priority and the priority documents have been received per the claim for priority filed May 29, 2001 and the PCT/IB/304 transmitted from the International Bureau. Copies of these papers are attached, along with a PTO-date stamped proof of filing.

Claims 1-4 have been replaced by new claims 5-10 in order to clarify the claimed invention. Proposed changes to Figs. 1 and 2 labeling them as prior art are attached. The title and specification have been amended to conform to the new claims.

Claims 1-4 were rejected under 35 USC §103(a) as unpatentable over Marchetto et al. Insofar as this reference may be applied against the new claims submitted herewith, the Applicants respectfully traverse for at least the following reasons.

A feature of the present invention clarified by the new claims is that a communication terminal apparatus performs equalizing on

received data while updating tap coefficients using, as an initial value, a tap coefficient obtained in a base station apparatus in association with an uplink signal from the communication terminal apparatus. The base station apparatus transmits a downlink signal to the communication terminal apparatus containing the tap coefficient. Claim 6 is directed to the communication terminal apparatus, claim 7 to the base station apparatus, and claims 8-10 to the method of the present invention.

The above-noted features have the advantage of enabling reduction of the calculation load and thus the processing time with respect to the equalizing operation performed by the communication terminal apparatus.

Marchetto et al. disclose a simulcast communication system that adaptively compensates differences in propagation time, lack of synchronization in transmitters, and multipath fading. This system includes a receiver 36 employing a DSP, that is surrounded by a plurality of transmitters 32. The receiver includes compensation means that adaptively compensates for changes in the impulse response of a multipath fading channel. The compensation means comprises an adaptive equalizer including processor means, decision means and error determination means where the processor means includes means for updating the plurality of equalization

coefficients to eliminate error (see col.3, lines 20-67, and col.4, lines 1-23).

However, Marchetto et al. neither disclose nor suggest a system or method wherein a communication terminal apparatus performs equalizing on received data while updating tap coefficients using, as an initial value, a tap coefficient obtained in a base station apparatus in association with an uplink signal. In particular, Marchetto et al. neither disclose nor suggest a system or method wherein a base station apparatus transmits a downlink signal containing a tap coefficient obtained in association with an unlink signal to a communication terminal apparatus, and a communication terminal apparatus updates tap coefficients using, as an initial value, the tap coefficient transmitted from the base station apparatus.

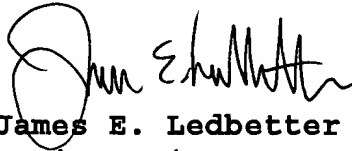
Accordingly, Marchetto et al. disclose a significantly different configuration from that of the present claimed invention. The Applicants respectfully submit that those of ordinary skill in the art would never have been led to the present claimed invention from the teachings of Marchetto et al.

From the above discussion, it is apparent that new claims 5-10 are in no way anticipated by or rendered obvious over Marchetto et al.

Accordingly, it is submitted that the present application is in condition for allowance, and a notice to that effect is respectfully solicited.

If any issues remain which may best be resolved through a telephone communication, the examiner is requested to telephone the undersigned at the local Washington, D.C. telephone number listed below.

Respectfully submitted,



James E. Ledbetter
Registration No. 28,732

Date: February 26, 2002

JEL/att

Attorney Docket No. L9289.01143

STEVENS DAVIS, MILLER & MOSHER, L.L.P.
1615 L Street, N.W., SUITE 850
P.O. Box 34387
Washington, D.C. 20043-4387
Telephone: (202) 408-5100
Facsimile: (202) 408-5200

EXHIBIT I: MARKED-UP VERSION OF AMENDED SPECIFICATION

Page 1, first full paragraph should read as follows,

The present invention relates to a radio communication system, communication terminal apparatus, base station apparatus and a radio equalizing communication method, [both being used] for use in a digital radio communication system.

Page 6, first full paragraph should read as follows:

An object of the present invention is to provide a radio communication system, communication terminal apparatus, base station apparatus and a radio communication equalizing method, [both] capable of following the changes of a propagation environment and a capable of equalizing effectively the distortion that a signal receives in a propagation path.